Commonwealth of Kentucky Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Julian D. Breckenridge

GENERAL INFORMATION:		
Name:	Polymer Partners	
Address:	1450 Commonwealth Drive	
	Henderson, KY 42420	
Date application received:	7/21/2006	
SIC Code/SIC description:	3087, Custom Compounding of Purchased Plastics	
	Resins	
Source ID:	21-101-00125	
Source A.I. #:	1831	
Activity ID:	APE20060001	
Permit:	F-03-012 R1	
APPLICATION TYPE/PERMIT ACTIVITY	Υ.	
[] Initial issuance	[] General permit	
[x] Permit modification	[x] Conditional major	
Administrative	[] Title V	
<u>x</u> Minor	[] Synthetic minor	
Significant	[] Operating	
[] Permit renewal	[] Construction/operating	
COMPLIANCE SUMMARY:		
[] Source is out of complian		
[x] Compliance certification	signed	
APPLICABLE REQUIREMENTS LIST:		
[] NSR	[] NSPS [x] SIP	
[] PSD	[] NESHAPS [] Other	
[] Netted out of PSD/NSR	[x] Not major modification per 401 KAR 51:001, 1(116)(b)	
MISCELLANEOUS:		
[] Acid rain source		
[] Source subject to 112(r)		
	lly enforceable emissions cap	
	r alternative operating scenarios	
[] Source subject to a MACT standard		
[] Source requested case-by-case 112(g) or (j) determination		
[] Application proposes new	——————————————————————————————————————	
[x] Certified by responsible of		
[] Diagrams or drawings inc		
[] Pollution Prevention Mea	ormation (CBI) submitted in application	
[] Area is non-attainment (li	ist ponutants).	

Pollutant	Actual (tpy)	Potential (tpy)
$PM_{10} = PT$	0.3233559	195.016925
VOC	1.5541552	0.2089080
Single Haps		
Formaldehyde	0.0004843	0.0000031
Acrolein	0.0000614	0.0000003
Propionaldehyde	0.0001096	0.0000007
MEK	0.0001288	0.0000006
Acrylic Acid	0.0001485	0.0000004
Acetaldehyde	1.4026240	0.0979029
Xylene	0.0187382	0.0000931
Methylene Chloride	0	0.0000085
Phenol	0.5479000	0.0000956
Phthalic Anhydride	0.0013259	0.0000006
Biphenyl	0.0013259	0.0000006
Benzene	0.0010958	0.0000006
Styrene Dimer Isomer	0	0.0000109
Toluene	0.0146837	0.0013889
Styrene	0.2849080	0.0238957
Ethylbenzene	0.0438320	0.0034711
Acrylonitrile	0.0042736	0.0004895
Caprolactum	0.1753280	0.0029768
Other HAPs	0.0876640	0.0089565
Total HAPs:	2.5846317	0.1392964

SOURCE DESCRIPTION:

The Polymer Partners (previously named Clariant) located at Henderson, Kentucky, manufactures black plastic color concentrates through a process of compounding various polymer resins with carbon black, calcium carbonate and/or other filler materials. Physical processes taking place include pneumatically feeding raw materials from silos and dump stations equipped to handle super sacks of carbon black and plastic resins into hoppers on the compounding lines. Thermal processes include the heating of the polymer resin and additives to product specific temperature and mixing in the compounding line. The finished product is fed to a pelletizer and dewatering system. On July 21, 2006 the Division of Air Quality received an application for a minor revision to add new facilities and to change process rates in existing facilities. Polymer Partners will continue to operate in compliance with 401 KAR 52:030 of federally enforceable permits for non-major sources.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

The emissions caps established in permit #F-03-012 will remain the same for permit #F-03-012 R1. Total VOC emissions shall not equal or exceed 90.0 tons per year and actual HAP emissions shall not equal or exceed 9.0 tons per year of any single or 22.5 tons per year of a combination of HAPs. These annual limitations shall not be exceeded during any consecutive 12-month period for the entire source.

OPERATIONAL FLEXIBILITY: None